W1TKZ

The Spark Gap

SEPTEMBER 1982

Book VII Vol IX

Official Journal of the Wellesley Amateur Radio Society

It Seems to Me...

With the summer now behind us it is time to start another year of Wellesley Amateur Radio Society activities. We have our usual lineup of both public service and operating events just as we do every year. For complete details, a calendar has been printed at the back of this issue for you to keep as a reference throughout the club year.

The past summer was pretty busy, with two VHF contests and of course Field Day to help keep W1TKZ on the air. All three operating events were very successful and thus enjoyable for the participants. Keep reading for complete details.

To get the new year started, we will need to get some business out of the way. Thus, as usual, the first meeting of the year will be a strictly business meeting to straighten out and pass the budget and the calendar for the new club year. Usually, there are no major changes needed from what is presented by the club officers, but at the very least everything needs to be ratified by the membership. This meeting will be held on Thursday, September 2 starting at 7:30 pm.

Our second meeting of the year will present our first of a series of speakers. For this meeting, our speaker will be Bob Wallace, W1HH, who is a collector of antique radios and will show a small part of his collection and speak about the subject. His collection includes over 100 items dating back to the earliest days of radio and most have been restored to like new condition by him. In addition to being a collector of radios, Bob is also an active operator. He is one of the select group of DXers who has had confirmed contacts with all the countries on the current DXCC list which is quite an accomplishment. I think everyone will find this a very enjoyable evening. This meeting will be September 16 starting at 7:30 pm.

Dues Dues Dues...

Of course the start of a new year also means that your yearly club dues are now due. The rate is unchanged from the past few years at $8.00 per person. Please bring your dues in person to one of the September club meetings or if this is not possible, you can mail them to the club treasurer, C.J. McDonald, WB1BUM, 48 Hale Street, Newton, Mass. 02164.

MEETINGS THIS MONTH:

September 2, 1982, at 7:30 p.m.
September 16, 1982, at 7:30 p.m.
Intermediate Bldg., Wellesley Hills, Mass.

OFFICIAL BULLETIN

Number 59, dated July 1, 1982:

At its July 1 open meeting, FCC has instructed its staff to draft a Notice of Proposed Rulemaking dealing with a codeless Amateur Radio License. This NPRM will propose to simply remove the code requirement from the present Technician class license, with access limited to frequencies above 50 MHz. The present Technician class license requiring code and permitting access to the Novice bands would also remain in force. However, the NPRM will also explore the possibility of a codeless digital license, similar to Canada's Digital Radio Operator Certificate, which requires knowledge of digital theory. Such a digital license could either be the only codeless license or it could be concurrent with a codeless Technician License. The NPRM will be released sometime this fall, and is a proposal only. There will be a comment period during which all interested parties will have a chance to make their views known to FCC.

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Number 60, dated July 7, 1982:

Effective immediately, a third party agreement is in effect between the U.S. and Australia. Amateurs of these two countries may handle messages on behalf of third parties provided that the messages are of a nature that would not be sent via commerical channels. For a list of the other countries with which the U.S. has third party agreements, see June 1982 OST, page 90.

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Number 61, dated July 13, 1982:

The ARRL Executive Committee has pledged wholehearted support of the radio Amateurs of Burbank, Illinois, in their fight to overturn an anti Amateur ordinance adopted in that city. ARRL financial support has been offered to permit a preliminary injunction against enforcement of the ordinance to be sought in Federal court, as well as a declaratory judgment holding the ordinance to be illegal. Executive Committee actio was by telephone conference call c July 9, initiated as soon as all committee members had received their copy of an extensive document from the Amateurs of Burbank. ARRL Counsel and other League representatives have been working closely with Amateurs in the Chicago area since the ordinance was adopted several weeks ago. The ordinance holds Amateurs liable for any interference resulting from the operation of their stations, regardless of the technical fault and would place unreasonable restrictions on the installations of antennas. The ordinance adopted in Burbank, Illinois, appears to violate the U.S. Constitution in that it attempts to regulate areas preempted by the Federal Government.

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Number 65, dated August 4, 1982:

At the request of the National Cable Television Association the FCC granted an extension of the commen deadlines in RM 4040, the League January 12, 1982 petition for rulemak ing to bar CATV operation at Amateur frequencies. The action extends the previous deadlines to September 1st for comments, and September 15th for replies to comments. In its order the Commission stated, "We believe we should encourage the parties in their efforts to reach a mutually agreeable resolution of their problems and therefore conclude that NCTA has shown good cause for the requested extension". Details to follow in OST.

Minutes

Meeting of June 3, 1982:

The meeting was opened at 7:33 pm by Vice President Roger Smith, W1EOA, with 11 present.

The secretary's report was read.

The treasurer's reports was read. Major purchases in the last month were 25 coax connects for Field Day and V Contests, and six come-alongs for us

The Spark Gap

Official Journal of the Wellesley Amateur Radio Society

EDITOR-IN-CHIEF:

NELS J. ANDERSON, K1UR
32 WESTGATE ROAD, APT. 6
CHESTNUT HILL, MASS. 02167
323-5029

THE "SPARK GAP" IS A MONTHLY PUBLICATION OF THE WELLESLEY AMATEUR RADIO SOCIETY. ITS PRIMARY PURPOSE IS TO KEEP ITS MEMBERS ABREAST OF CURRENT HAPPENINGS, F.C.C. RULES & REGULATIONS CHANGES, AND TO LIST EQUIPMENT OFFERED FOR SALE OR TRADE BY MEMBERS. MEMBERS ARE ENCOURAGED TO CONTRIBUTE TO THE "SPARK GAP" AND MAY SENT THEIR ARTICLES (TYPEWRITTEN IF POSSIBLE) TO THE EDITOR-IN-CHIEF OR TO THE CLUB ADDRESS.

THE WELLESLEY AMATEUR RADIO SOCIETY IS A NON-PROFIT ORGANIZATION DEDICATED TO THE PROMOTION OF AMATEUR RADIO THROUGH INSTRUCTION, FELLOWSHIP, DEMONSTRATION, AND ENCOURAGEMENT OF PARTICIPATION. ANNUAL MEMBERSHIP IN THE SOCIETY IS $8. THE CLUB YEAR RUNS SEPTEMBER 1 TO AUGUST 31. AMATEUR NOVICE AND GENERAL CLASSES ARE CONDUCTED REGULARLY AT NO COST. TO ENROLL IN A CLASS, OR GAIN INFORMATION ABOUT THE SOCIETY IN GENERAL, WRITE:

THE WELLESLEY AMATEUR RADIO SOCIETY
324 WASHINGTON STREET
WELLESLEY HILLS, MASS. 02181

in guying towers.

As possible new locations for the club the basements of two town fire stations have been offered. They would have 24 hour access, a meeting area, and storage available.

The repeater transmitter tower at the Newton-Wellesley Hospital has still not been erected due to bad weather.

The club's generator is still being repaired. The magneto needs work and is currently waiting for a part to be shipped.

Possible Field Day sites were discussed.

The VHF Contest was discussed.

The meeting was closed at 8:05 pm.

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eting of June 17, 1982:

The meeting was opened at 7:34 pm by President David Curry, K1TK, with 14 present.

The secretary's report was read.

The treasurer's report was read. Since the last meeting we have had expenses for generator parts, and VHF contest supplies.

Initial VHF contest results are in: operating was good, weather was bad.

The election of officers for the year 1982/83 were held. Results can be found elsewhere in this issue.

A motion was made by Nels Anderson, K1UR, to spend up to $30 to purchase additional QSL cards as our stock is almost depleted. A vote was taken, and the motion was passed.

Discussion of a "Super Spark Gap" as a promotion in the fall was held.

A reminder was given about the September VHF contest, again with the antique car race at the same time, on the weekend of September 11 and 12.

It was finally announced that Field Day this year would be at the Wellesley Town hall.

The meeting was closed at 8:30 pm.

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Meeting of July 15, 1982:

The meeting was opened at 7:34 pm by President David Curry, K1TK, with 6 present.

The secretary's report was given.

The treasurer's report was given.

Results of Field Day were announced. We ended up with one of the highest scores we have had in many years.

The new QSL cards approved at the last meeting are in and were displayed.

It now appears that we will need a permit before the repeater transmitter tower can be installed at the hospital so there will be an additional delay.

The president announced the appointed officers for the year 1982/83.

The 1982/83 club calendar was discussed.

Since we need to draft a letter to the selectman to help them find a new club location, a lengthy discussion of our real needs was held, with a letter to be written from the results.

The meeting was closed at 9:38 pm.

CHUCKLE KORNER

WHICH HAM ARE YOU?

Solid State, Ohio Valley Rptr
via ARNS

Take a look at this list of the different types of "hams" and decide.

THE SHY HAM
---The ham that won't call a rare one because he signed "clear and QRT".

THE IMPUDENT HAM
---The ham that calls with CW in a phone pile-up.

THE UNFORTUNATE HAM
---The ham that gets a reply to his CQ five seconds after he goes QRT.

THE SADISTIC HAM
---The ham that runs a strictly list operation from a rare QTH.

THE HONEST HAM
---The ham that gives out a 3x6 signal report in a contest.

THE MISERABLE HAM
---The ham that burnt out a $75 set of finals while tuning up.

THE ATHLETIC HAM
---The ham that can bend over and touch his toes without grunting.

THE STRATEGIC HAM
---The ham that schedules his vacation on big contest week-ends.

THE LAZY HAM
---The ham that spends five hours devising an easy way to do a five minute job.

THE SENSITIVE HAM
---The ham that will listen to you brag and not tell you he did the same thing yesterday.

THE NERVOUS HAM
---The ham who has just received his first "pink ticket".

THE RICH HAM
---The ham who has everything a week after it hits the market.

THE POOR HAM
---The ham who doesn't buy a QRP rig because of its power factor.

THE IGNORANT HAM
---The ham who believes that the Wouff Hong is going to get him.

THE PARANOID HAM
---The ham who believes that the FCC is out to get him.

THE PRACTICAL HAM
---The ham who believes that the FCC is out to get everybody.

THE THRIFTY HAM
---The ham who goes to the Dayton Hamvention just to look around.

THE WORRIED HAM
---The ham whose tower has just fallen across the neighbor's roof.

THE LONELY HAM
---The ham whose rig is in the shop for repairs.

THE LUCKY HAM
---The ham who wins an all-expense vacation to his favorite DX QTH.

THE BAKED HAM
---The ham who forgets to provide shade during Field Day.

THE SMOKED HAM
---The ham who forgets to ground his antenna during a thunder storm.

THE DIPLOMATIC HAM
---The ham who can convince the XYL he needs to spend more time in the shack.

"timeout!"

By Mike Adlerstein, K1FB

A U.S. House subcommittee in June voted in favor of bill 5008 which would, amoung other things, permit volunteer Amateur license exams. The ARRL has, for a long time lobbied for this bill.

Hopefully, a volunteer licensing program would reverse the trend of declining applications for upgrade by making it more convenient for applicants. At present, long range advanced appointments coupled with sometimes extensive and expensive travel are required to take exams at FCC field offices. Special testing at hamfests is no longer feasible due to FCC budget cuts.

The passage of the bill by the full House of Representatives would be resounding vote of confidence in the

integrity of the Amateur Radio brotherhood and the ARRL. Nevertheless, safeguards would be necessary such as certification by three Extra class licensees of any completed test. Examination times and places would be announced publicly and well in advance Code and theory exams would be composed by the ARRL from material approved by the FCC.

The new plan should go far in revitalizing the licensing process, this writer hopes the Congress approves it expeditiously.

VHF CONTEST

by Nels Anderson, K1UR

Talk about great band conditions, this year's June ARRL VHF QSO Party had them, and on all bands. Two meters and above provided us with various types of openings including an aurora that seemed to be there all weekend and six meters, although it didn't open big until very late on Sunday evening, eventually provided us with 42 states. Not bad for only 28 hours of operating!

The place as usual was 3848 foot Mt. Equinox in south western Vermont and this year's dates were June 12 and 13. Most of the group travelled up on Friday evening and settled into the Sky Line Inn for a good nights rest before the work of the weekend began. Saturday started out with beautiful weather, making setting up more enjoyable than it often is when it's foggy and raining. In fact, by early afternoon just as the contest was starting, it was actually hot which is something we have seldom seem on Equinox. This didn't last long as before the evening was upon us and the contest more than a few hours old, the usual fog settled in bringing with it some very cold temperatures.

As operation continued into the night, operation on 220 or 432 became almost a form of banishment as the tent that housed them had a flap that wouldn't close so the cold, foggy wind would constantly blow on the unfortunate operator. By the time we shut down for the evening, we had already logged some good contacts, including many 8's and several 9's on two meters. We have never previously worked any 9's on two before so something was certainly working right (maybe the new pair of 22 foot long Cushcraft Boomers we were using as antennas).

Operation commenced earlier than usual the next morning, due to an enthusiastic six meter operator and things went along fine throughout the day, although the weather didn't improve any. The big break of the contest didn't come until the last few hours of the contest late Sunday evening and early Monday morning when six meters suddenly opened to all parts of the western United States providing us with almost every section right to the west coast. Usually things tend to slow down toward the end of the contest as you run out of people to work, but not this time. The opening brought in so many new parts of the country that we were making as many as fifty contacts per hour almost right up to the end of the contest.

The only equipment change other than the previously mentioned pair of Boomer antennas on two meters was a Yaesu FT101ZD and Yaesu transverter which we used on six meters for part of the contest. We never really decided whether this was better than the old Yaesu FT625RD or not however.

The final results by band are as follows:

BAND	QSO	QSO PTS.	MULT.
50	484 x 1	484	54
144	350 x 1	350	25
220	17 x 2	34	7
432	49 x 2	98	17
1296	6 x 3	18	4
2304	2 x 3	6	2
10000	4 x 3	12	3
TOTAL:	912	1002	112

112,224

Although the number of multipliers is greater, the overall score just missed beating our personal best set last June. There was a slight change in the rules this year for single operators so this might have affected the number of people available to be worked on some of the bands. With these kinds of results, even if not record breaking, the weekend would have to be called a great success.

Operators this June from Mt. Equinox were: K1TK, K1UR, N2AWG, W1GCI, W1OOP, WB1BUM, WA1ZLQ, WA1YOJ, VE3CGL, WA1PQY, K1OGF.

UHF CONTEST

by Nels Anderson, K1UR

This year's ARRL UHF Contest was held the weekend of August 7 and 8 and this year a small group consisting of David Curry, K1TK, Bill Downing, WA1PQY, and Nels Anderson, K1UR journeyed to Mt. Equinox for the operation. In the past few years we have used this contest as a testing ground for new equipment before bring it to the "big" contest in September, and this has worked out very well as we have found a number of problems that were corrected. This year was no exception with the item to be tested a GaAs FET preamp for 432 MHz. The preamp proved to work quite well, judging by our results on the band.

This contest allows operation only on the bands 220 and above and we were able to run 220, 432 and 10000. By far 432 was our best band and the new preamp seemed to be a great help. We worked several states out in 8-land and one in Virginia which is a good distance on this band.

The scoring in this year's contest has changed, as the distance of the contact now determines the point value, making scoring quite interesting. Our total results for the weekend are as follows:

BAND	QSO	QSO PTS.	MULT.
220	15	156	11
432	45	558	25
10000	3	60	3
TOTAL:	63	774	39

30,186

OFFICERS

PRESIDENT:
David Curry, K1TK, 237-2450
VICE PRESIDENT:
Roger Smith, W1EOA, 965-2463
TREASURER:
C.J. McDonald, WB1BUM, 332-6091
RECORDING SECRETARY:
Nels Anderson, K1UR, 323-5029
CORRESPONDING SECRETARY:
Skid Schermerhorn, W1TTY, 235-1987
FUND RAISING:
Kevin Kelly, WA1YHV, 242-0341
OPERATING ACTIVITIES:
Erik Thoresen, K1OGF, 653-1216
EDUCATION:
Art Thompson, KA1ENP, 235-5509
EMERGENCY COORDINATOR:
Skid Schermerhorn, W1TTY, 235-1987
TECHNICAL ADVISOR:
Mort Cohan, KA1IU, 482-2700
STATION MANAGER:
Dick Paret, WA1ZLQ, 762-5074
EQUIPMENT MANAGER:
Dick Paret, WA1ZLQ, 762-5074
REPEATER COMMITTEE:
David Curry, K1TK, 237-2450
ELECTION COMMITTEE:
C.J. McDonald, WB1BUM, 332-6091
PUBLIC RELATIONS:
Nels Anderson, K1UR, 323-5029
TRUSTEE:
David Curry, K1TK, 237-2450

FROM THE MAILBAG

Town of Wellesley
Fire Department

July 8, 1982

Mr. David Curry, President
Wellesley Amateur Radio Society

Dear Mr. Curry,

I would like to thank the members of the Wellesley Amateur Radio Society, particularly Charles McDonald and Richard Paret, for their assistance with the purchase and construction of the new 24 hour clock for our dispatch center.

Their knowledge is a valuable resource and it is most appreciated when they make it available to the Fire Department.

Please convey our appreciation to them and your membership.

Very truly yours,
Stephen A. Black
Fire Chief

FIELD DAY!

by Nels Anderson, K1UR

For Field Day 1982 we broke with the tradition we have followed in most recent years and did not travel to some exotic location to operate. Instead, we operated from the lawn of the Wellesley Town Hall, which is about as close as you could possibly be to home for most members. Although not an especially favorable operating location, the Town Hall does provide some pleasant surroundings and surprisingly, also provided us with our best results in several years.

Not only were our results scorewise very good, but the weather all weekend was perfect, not like normal Field Day's where it's almost expected to rain or something. It was a bit muggy on Saturday, but that's about the biggest complaint that could be made.

Being close to home had some additional advantages besides not having to travel. The Wellesley Fire Department ladder truck came on Saturday and helped us erect a sixty foot tower, which was an interesting experience for all involved. This taller than usual tower also probably helped account for our better than usual score.

This year we decided to enter in the two transmitter class, since in the past few years when we have entered a higher class we have at times during the weekend had trouble getting enough people to operate all the stations at all times. This worked out well as both stations ended up on the air almost full time. When you consider that we were operating less transmitters than we have the past few years, it's even more remarkable that our score should improve.

Well, what exactly was our score? The breakdown by bands is as follows:

BAND	CW	PHONE
80	115	259
40	160	99
20	71	224
15	9	177
10	-	23
2	-	5
TOTAL	355	782

Since we operated with under 200 watts on all bands and had 570 bonus points, our final score comes out to 3550 on our total of 1137 QSOs.

For equipment, we had a tribander on the top of the sixty foot tower, courtesy of N1ADY (must be nice to have a spare!). For fourty meters, we once again used the four element wire beam that K1TK built a few years ago and again it performed well. On eighty we used a standard dipole and

on two a small beam and a vertical. The rigs were a barefoot Kenwood TS-520 and TS-820S.

The biggest challenge of the weekend came when it was time to take down the tower, and due to a communications problem, we could not get the fire department to come back and help. So, after removing all the antennas from the top, Dave Curry's Toyota Land Cruiser was put to work as a sort of driveable winch and lowered the tower to the ground without too much problem. It did take a bit of a divit, though, when the tower base popped out of the ground.

With this little problem out of the way, we were soon packed up and our easiest and most successful Field Day in some time was over. As usual there were a large number of club members involved actively and in addition many more dropped by to observe the goings on, too many for me to try to get straight here.

Rumblings

Once again I would like to remind all of you that contributions to the Spark Gap of any kind are needed from all members. Certainly most of you are not writers but you really don't need to be to contribute a short article to the Gap. After all, your editor is no professional writer either.

Whole articles are not necessary to be a contributor either. News items about your activities or about other club members are something we could use. Most other club newsletters that I read have a regular column about members activities such as new rigs purchased, new DX worked, etc. and I think this would be a nice addition to the Spark Gap, but to do it I need some input from the members. How about it?

Also, if there is someone really ambitious out there, it would be nice to restart the profiles column we had up to a few years ago. If someone would like to interview one club member a month and write a short biography from the interview this would be another nice addition to the Spark Gap. If you are interested, please contact the editor.

THE WESTLINK REPORT
THE AMATEUR RADIO NEWSLETTER

Amateur Radio will be sharing the 450 band with a non-governmental radio location system. The FCC has granted a petition from Del Norte Technology which asked permission for the company to use spread spectrum techniques for radio location purposes on a non-interfering basis with Amateur Radio operations between 420 and 450 MHz. All objections filed by Amateurs were met in the Commission's final decision. They include: spread spectrum only for all of Del Norte's inland operations, mandatory identification every 20 minutes in a manner that can be decoded on a narrow band receiver ar signing the letters "DN" in morse co (not C.W. but some form of narrow band signal discernible on an amateur receiver).

This is not a defeat for the Amateur Service, since the required use of spread spectrum transmission should keep incidences of interference quite low, while at the same time precluding other services, such as land mobile, from grabbing the 3/4 meter band in the future. The order covers the 48 contiguous states plus Alaska. Thanks W9JUV.

Westlink Report, August 13, 1982

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The ARRL has pledged $7500 to assist the Amateur community in Burbank, Illinois to overturn the nation's most restrictive tower/antenna/RFI ordinance. On July 9th, the League's Executive Committee unanimously passed a motion offered by Bill Stevens, W6ZM (Pacific Division) to "...express its wholehearted sup port for the action being undertak by the Radio Amateurs of Burbank,

inois to seek a preliminary i unction in Federal Court against the enforcement of the extremely objectionable ordinance recently enacted in their city, and further, to seek a declaratory judgment, overturning the ordinance."

Westlink Report, July 30, 1982

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Henry Feinberg, K2SSQ, is becoming a sought-after personality for public appearances. Henry, designer and builder of the communicator in Steven Spielberg's "E.T.: The Extra Terrestrial", began appearing at Bloomingdales Department Store in New York, and then was interviewed on ABC's "Good Morning America." Others want him as well, but it is unknown how many more appearances he will be able to make. As the Director of Corporate Exhibits for ATT, Henry is currently in charge of designing the Bell System Pavilion at Walt Disney's "Epcot" in Florida.

Westlink Report, July 30, 1982

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The Senate Commerce Committee has voted to reduce the number of FCC Commissioners from the current authorized 7 to 5 by next June 30th. While just described as a cost-cutting measure, the move could also solve a political problem that has arisen between President Reagan and Senator Ted Stevens of Alaska. The President has nominated Steven A. Sharp, currently the FCC's General Council, to fill the 7th seat on the Commission. Stevens, however, believes that someone other than a Washington attorney should be appointed to the Commission and has been able to get the Commerce Committee to delay setting a date for confirmation hearings for Sharp. If the move to reduce the number of Commissioners is successful, the nomination of Sharp would automatically be terminated. This action is estimated to save the Federal budget at least $100,000 in fiscal 1982, and one-half illion dollars each year after. hanks W6RCL.

Westlink Report, July 30, 1982

The American Radio Relay League has formed a new advisory committee on digital communications. Doug Lockhart, VE7APU/3 of Don Mills, Ontario, was the driving force behind the Vancouver packet radio group, and has been appointed as the Canadian member of the Committee. Both the software and the hardware that the Vancouver group developed are being duplicated throughout North America. Thanks CRRL News.

Westlink Report, July 16, 1982

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Westlink Report has conducted a pole of its readers concerning the FCC proposal for a no code Amateur Radio license. Out of 367 responses, 79.8 percent said that a no-code license should not be created. If the FCC should decide to go ahead with a no-code license anyway, most said that the requirements should be strict. 73 percent felt that the written test should be harder than that for the Technician. In addition, 84.7 percent felt that no-code licensees should not be allowed on 2 meter FM and 71.4 percent felt they must upgrade within a certain period of time or loose the license. Only 2.2 percent felt that the FCC would be able to police a large influx of new licensees.

Westlink Report, August 13, 1982

Flea Market

The Wellesley Amateur Radio Society's fall flea market will be held on Saturday, September 25 starting at 9:00 am. Once again we will be setting up in the Wellesley High School parking lot with the sellers operating from their own tables or from their cars. We will need a group of club members to work at the flea market collecting admission and setting up starting at around 8:00 am. If you are interested in helping, contact the club officers or at least come to the flea market on September 25.

WELLESLEY AMATEUR RADIO SOCIETY

1982-83 Calendar

9/2--Business meeting (budget and calendar approval)
9/11-12--VHF QSO Party, Mt. Equinox, Vermont
9/16--Meeting. Guest speaker, Bob Wallace, W1HH, on antique radios
9/25--Flea market, Wellesley High school

10/2-3--ARRL New England Division Convention, Boxboro, Mass.
10/7--Business meeting
10/17--Wellesley Veterans' Parade
10/21--Meeting.

11/4--Business meeting
11/18--Meeting.

12/15-19--Natick Mall Message Fair (set up 12/14)

1/6--Business meeting
1/8-9--VHF Sweepstakes
1/20--Meeting.

2/3--Business meeting
2/17--Meeting

3/3--Business meeting
3/17--Meeting.

4/7--Meeting.
4/14--Business meeting (marathon and auction)
4/16--Auction or flea market
4/18--BAA Marathon

5/5--Meeting.
5/19--Business meeting (elections)

6/2--Meeting.
6/11-12--VHF QSO Party, Mt. Equinox, Vermont
6/16--Meeting.
6/25-26--Field Day

7/21--Summer meeting

8/18--Summer meeting